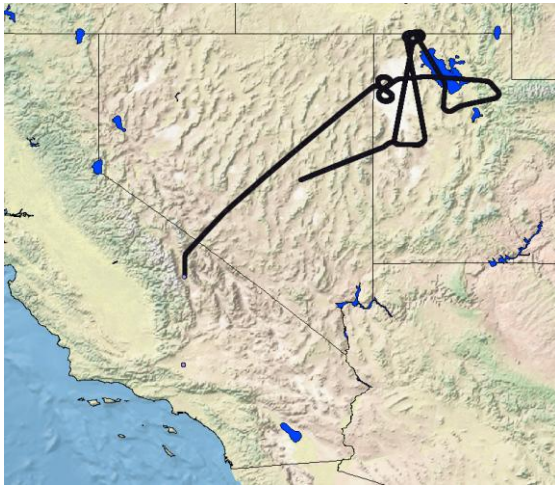


12/11/2010

Mission: 'Bonneville'



Weather: overcast with holes

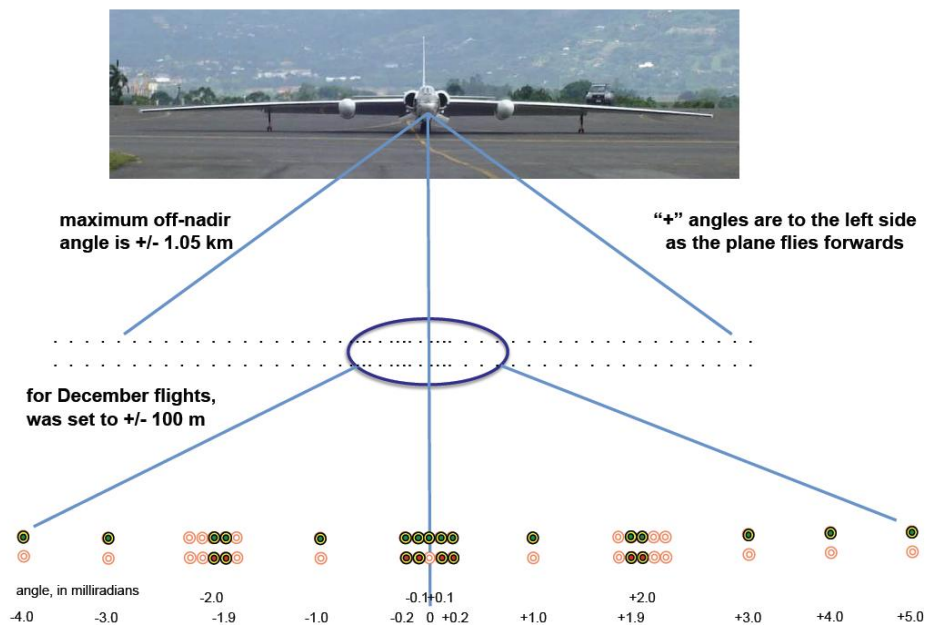
Comments: GPS/IMU fails to communicate for part of this trip; reset.

Sample rate: **10 kHz**

Energy levels throughout channels: static

FOV: 'spread pattern' (see image below)

Footprint geometry for initial flights



Angle to Channel map:

Fiber	1	2	3	4	5	6	7	8									
Connector	6	5	2	1	-1	-2	-5	-6									
Channel	94	96	98	100	44	46	48	50									
Power (Matt, mW)	26.8	31.5	23	12.6	23	22.4	17.3	23.6									
Filter	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49									
Raw Energy (Matt, uJ)	2.68	3.15	2.3	1.26	2.3	2.24	1.73	2.36									
Filtered Energy (uJ)	1.31	1.54	1.13	0.62	1.13	1.10	0.85	1.16									
Path Lengths (Matt, mm)	0	16	32	48	65	81	97	113									
Angle (mrad)	2	1.9	0.2	0.1	-0.1	-0.2	-1.9	-2									
Approx offset on ground (m): 65k'	40	38	4	2	-2	-4	-38	-40									

Fiber	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Connector	-10	-9	-6	-5	-3	-2	-1	0	1	2	3	5	6	9	10	11
Channel	3	5	1	7	65	9	63	11	61	13	59	15	57	51	55	53
Power (Matt, mW)	36.9	35.8	31.6	38.8	23.4	25	29.2	29.7	25.4	31.4	29.6	27.6	28.4	26.8	33.8	34.3
Filter	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Raw Energy (Matt, uJ)	3.69	3.58	3.16	3.88	2.34	2.5	2.92	2.97	2.54	3.14	2.96	2.76	2.84	2.68	3.38	3.43
Filtered Energy (uJ)	2.55	2.47	2.18	2.68	1.61	1.73	2.01	2.05	1.75	2.17	2.04	1.90	1.96	1.85	2.33	2.37
Path Lengths (Matt, mm)	27	43	59	75	92	108	124	140	156	172	188	204	221	237	253	269
Angle (mrad)	-4	-3	-2	-1.9	-1	-0.2	-0.1	0	0.1	0.2	1	1.9	2	3	4	5
Approx offset on ground (m): 65k'	-79	-59	-40	-38	-20	-4	-2	0	2	4	20	38	40	59	79	99

Points of Interest:

Time (UTC)	TOF File	Description
23:54:54	3	Laser status healthy
00:11:04	14	start of first ICESat NE run
00:31:00	19	end of first ICESat NE run
00:37:55	21	start of first ICESat SE run
00:56:05	25	end of first ICESat SE run
01:02:40	27	start of second ICESat NE run
01:22:26	32	end of second ICESat NE run
01:28:30	33	start of first ICESat SE run
01:46:49	38	end of first ICESat SE run
01:53:18	39	start of third ICESat NE run
02:13:03	44	end of third ICESat NE run
02:20:50	46	start of first leg over Great Salt Lk
02:27:33	48	end of first leg over Great Salt Lk
02:48:02	53	start of second leg over Great Salt Lk
02:54:00	55	end of second leg over Great Salt Lk
03:00:46	56	start of small calibration run
03:23:25	62	end of small calibration run
04:27:32	78	Laser off